



ITRI/NYCU-UCSD Bilateral Symposium on Neural Engineering



When: **Wednesday, August 13, 2025, 14:30-17:30**

Where:

In-person: San Diego Supercomputer Center,
East Expansion; South Wing, Level B1, E129E

Over Zoom: <https://ucsd.zoom.us/j/8588227555>



UC San Diego Institute of
Engineering in Medicine

Agenda

14:00 - 14:30 **Check In**

14:30 - 14:50 **Opening and Introduction**

14:50 - 15:00 **Signing of the UCA between SSTC/ITRI and INC/UCSD**

15:00 - 15:30 **Invited Talk 1:** *In-Ear Unobtrusive Brain-Body Health
Monitoring and Auditory Neuromodulation*

Presenter: Prof. Gert Cauwenberghs, Department of Bioengineering,
and Institute for Neural Computation (INC), UCSD, USA

15:30 - 16:00 **Invited Talk 2:** *Digital Rhythmic Music Therapy for Gait
Rehabilitation in Parkinson's Disease*

Presenters: Dr. Ming-Chieh Tsai and Prof. Po-Hsun Cheng
Service Systems Technology Center, ITRI, Taiwan

16:00 - 16:10 **Coffee/Tea Break**

16:10 - 16:40 **Invited Talk 3:** *The Role of EEG in Scalable Research on
Neural Mechanisms of Behavioral Addictions*

Presenter: Dr. Mateusz Gola, Swartz Center for Computational
Neuroscience, INC, UCSD, USA

16:40 - 17:00 **Invited Talk 4:** *Development of a Multi-Modal BCI-Controlled
Exoskeleton System for Neural Rehabilitation*

Presenter: Prof. Li-Wei Ko, Institute of Electrical and Control
Engineering, National Yang Ming Chiao Tung University,
Taiwan; Service Systems Technology Center, ITRI, Taiwan

17:00 - 17:20 **BCI Demonstration:** *BCI-Controlled Drone via ERD Classification
of Foot Motor Execution*

Presenter: Sheng-Yu Cheng, Department of Electrical Engineering,
National Taiwan University, Taiwan

17:20 - 17:30 **Open Discussion and Closing Remarks**